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WARNING
THE AREAS INDICATED BY SHADING
CONTAIN COMPONENT PARTS WHICH
GENERATE HEAT SUFFICIENT TO
CAUSE INJURY. AVOID TOUCHING THE
INDICATED AREAS WHEN WORKING
WITH THE INSTRUMENT.

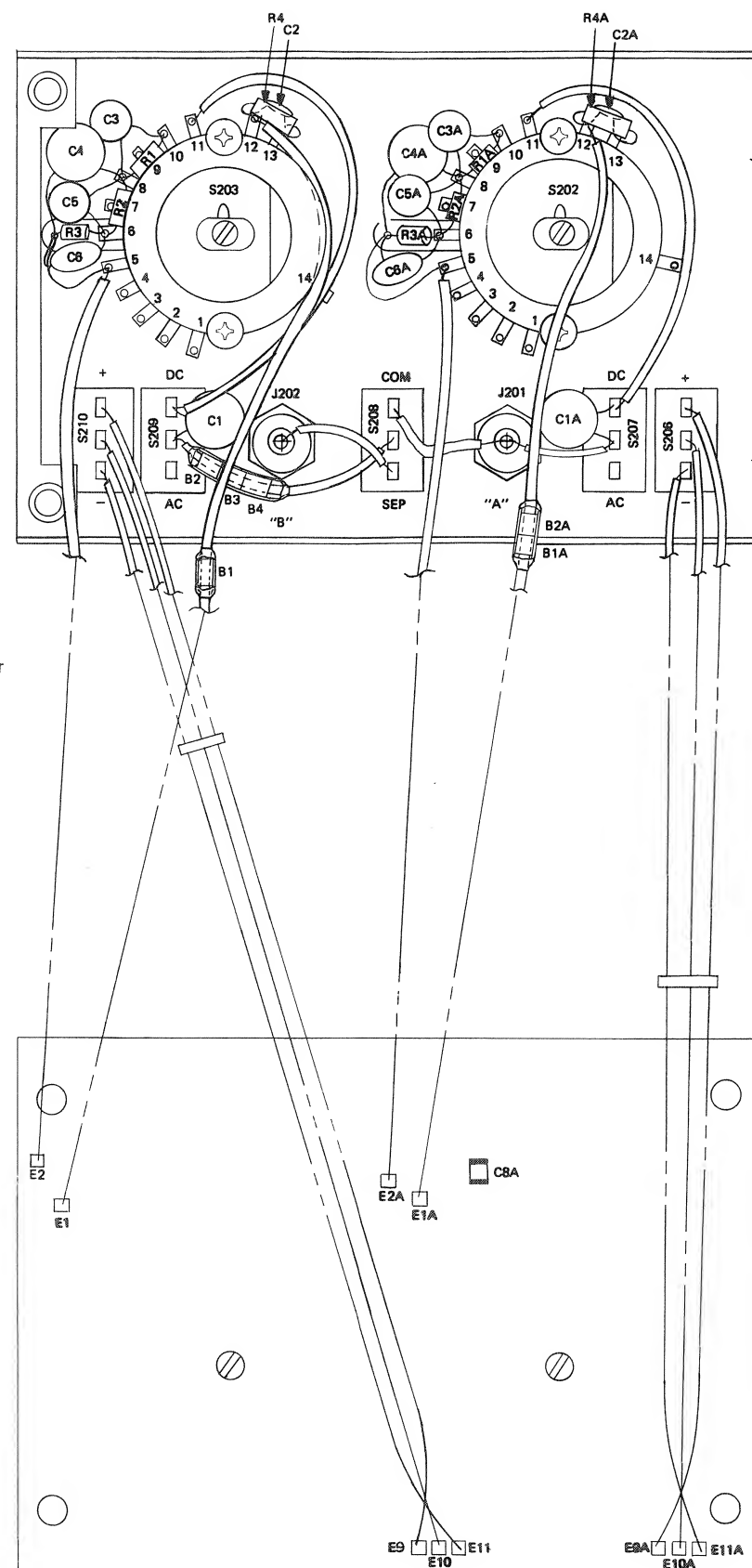
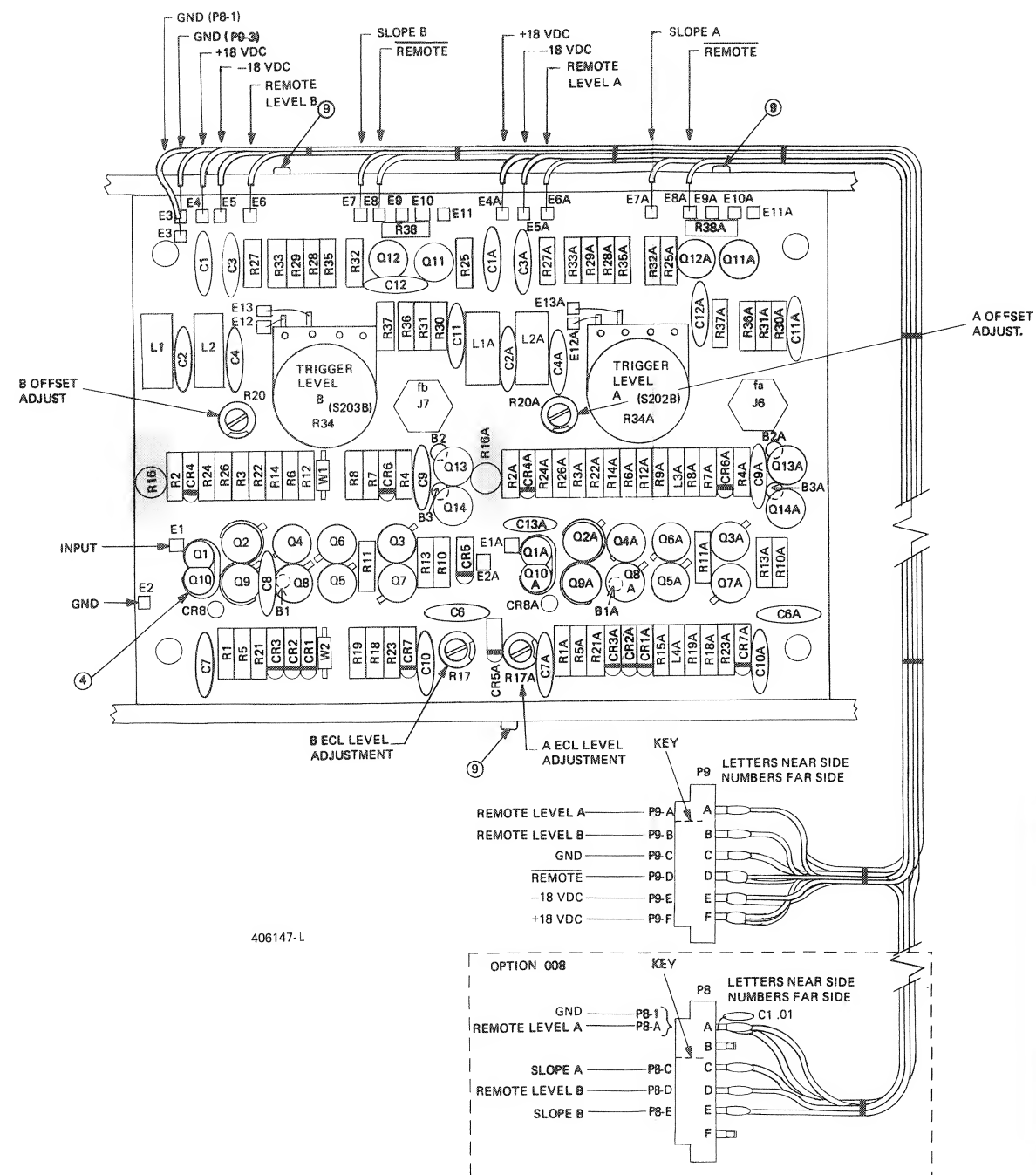


Figure 6.1 - Layout, Signal Conditioning – Dual

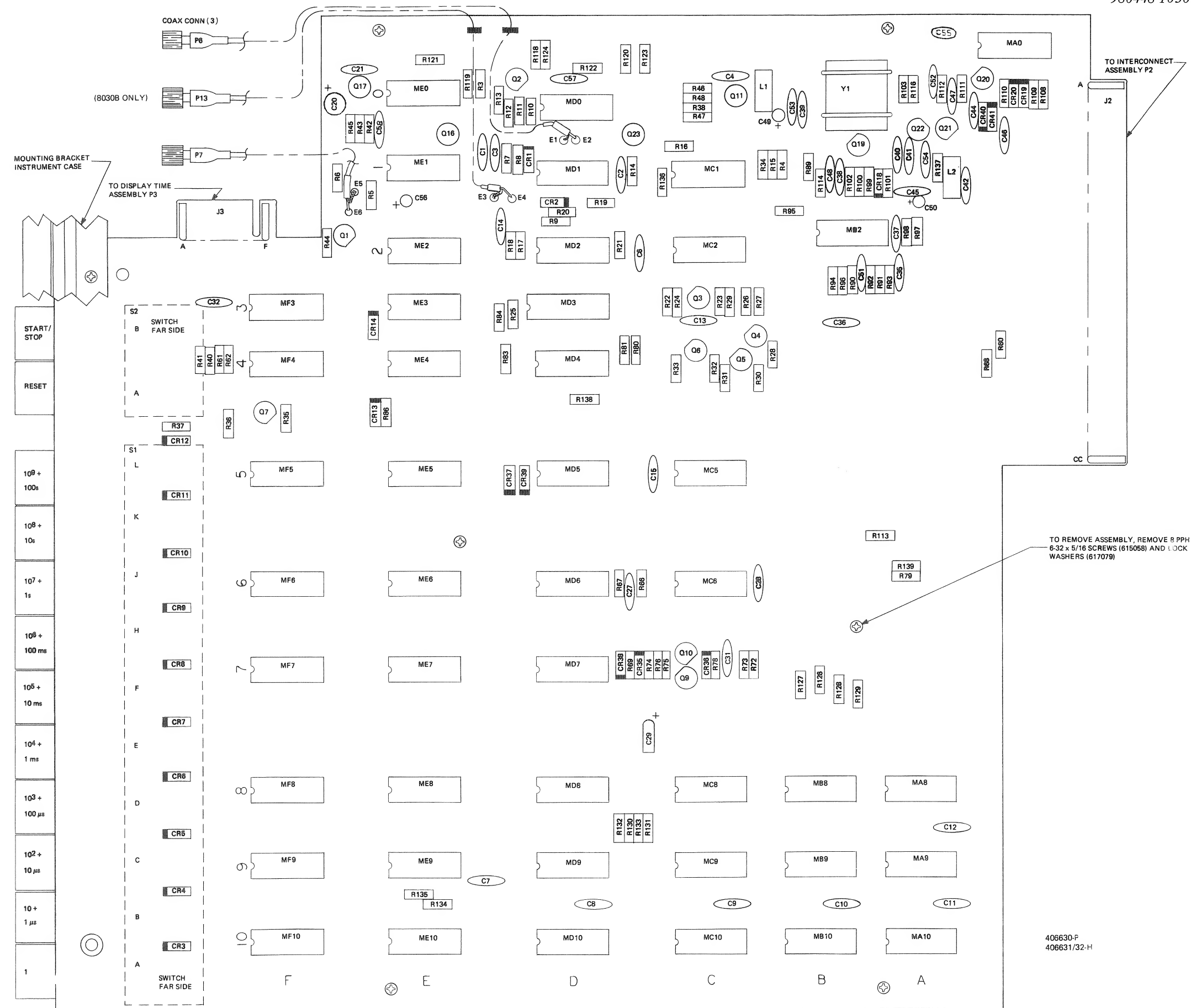


Figure 6.3 - Layout, Switch Board TIA

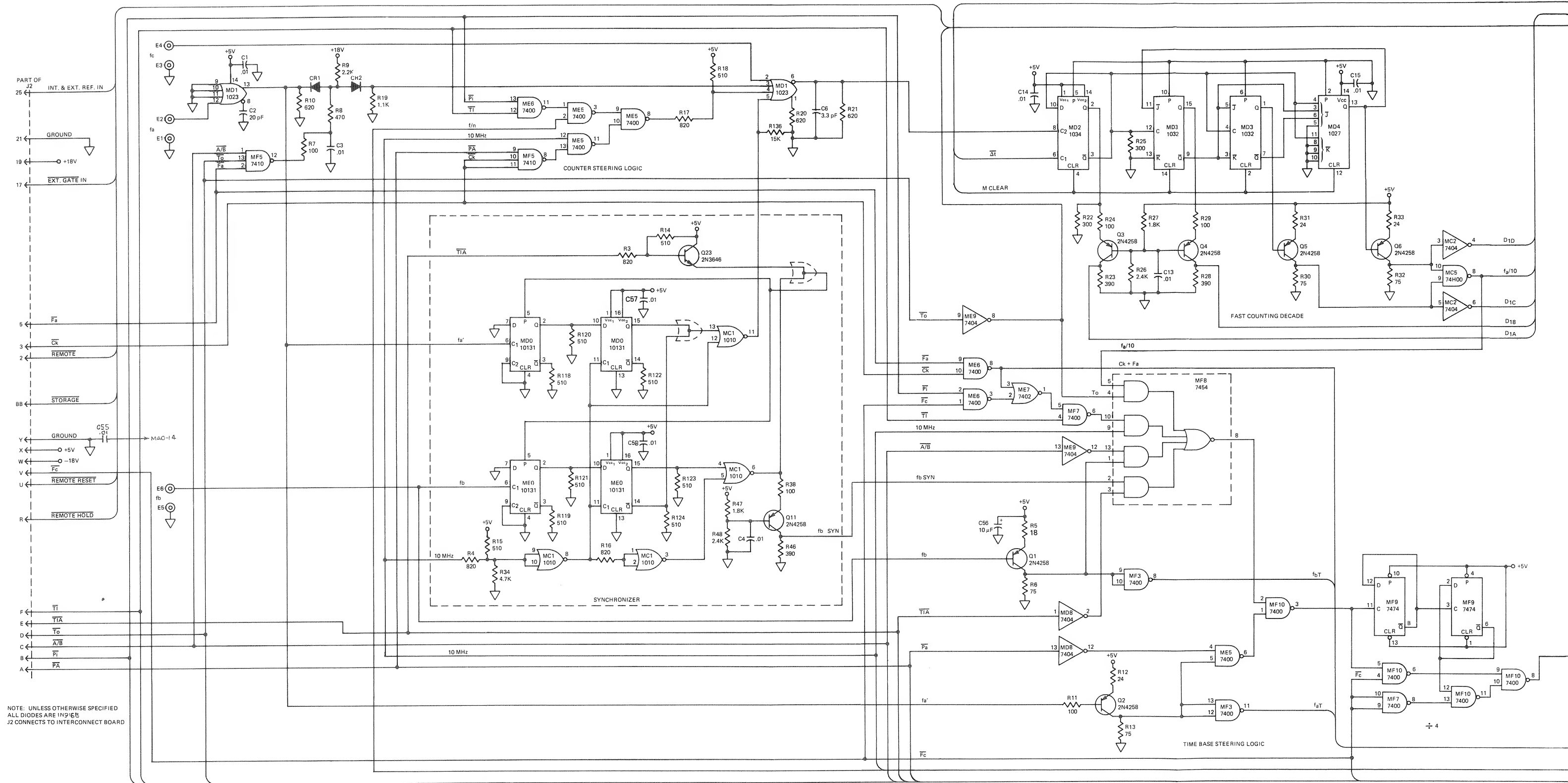


Figure 6.4 - Schematic, Switch Board TIA



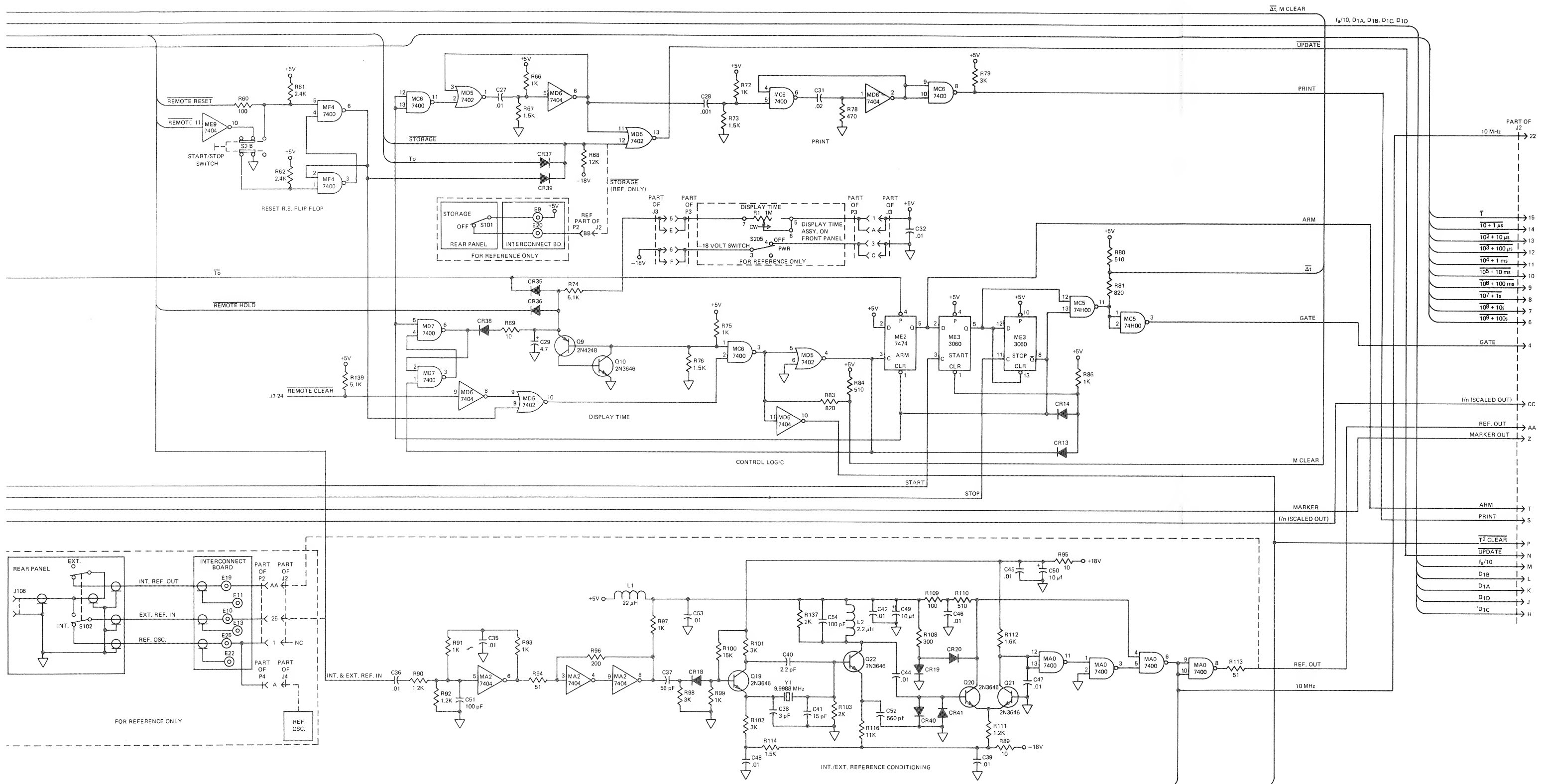


Figure 6.4 - Schematic, Switch Board TIA continued

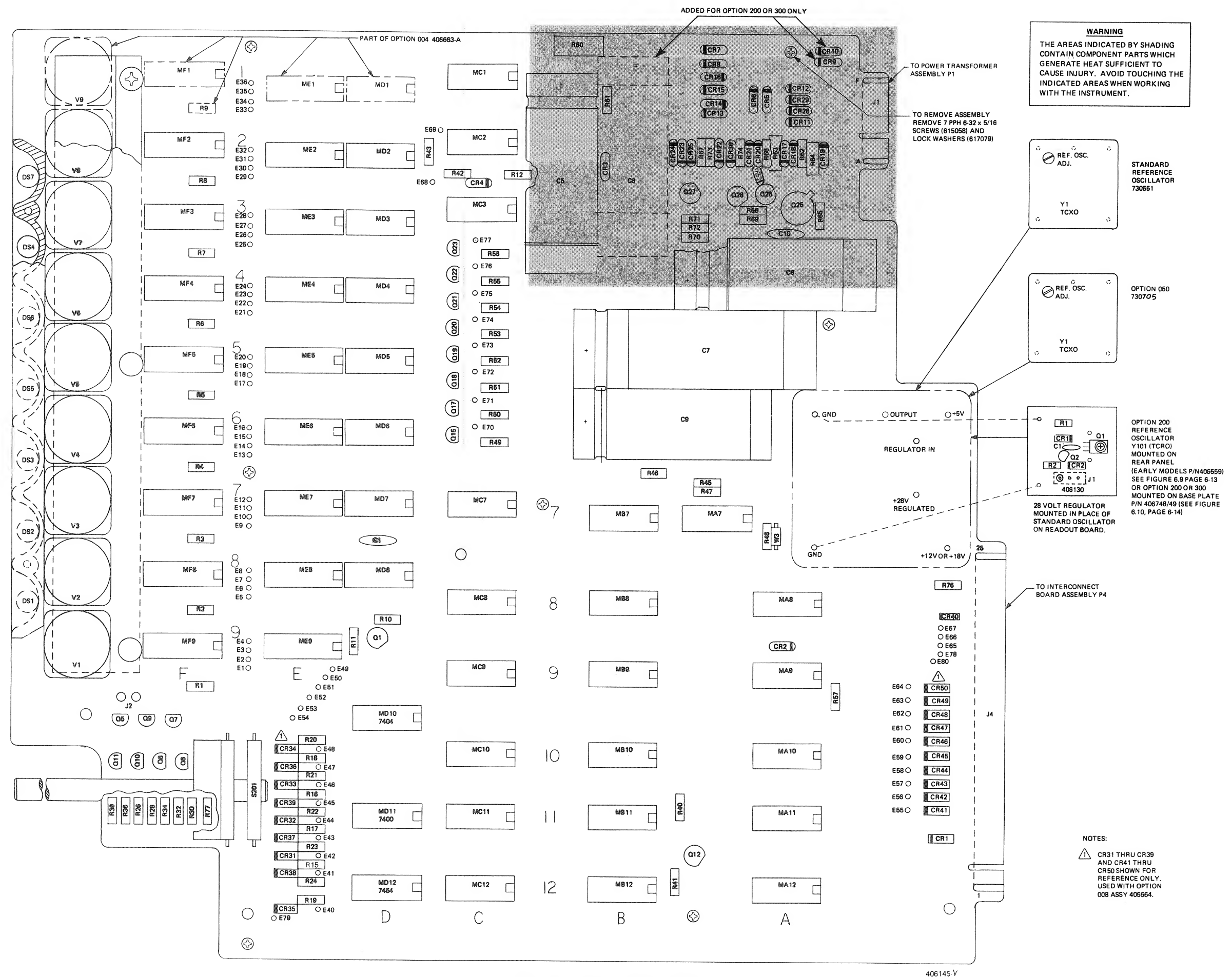
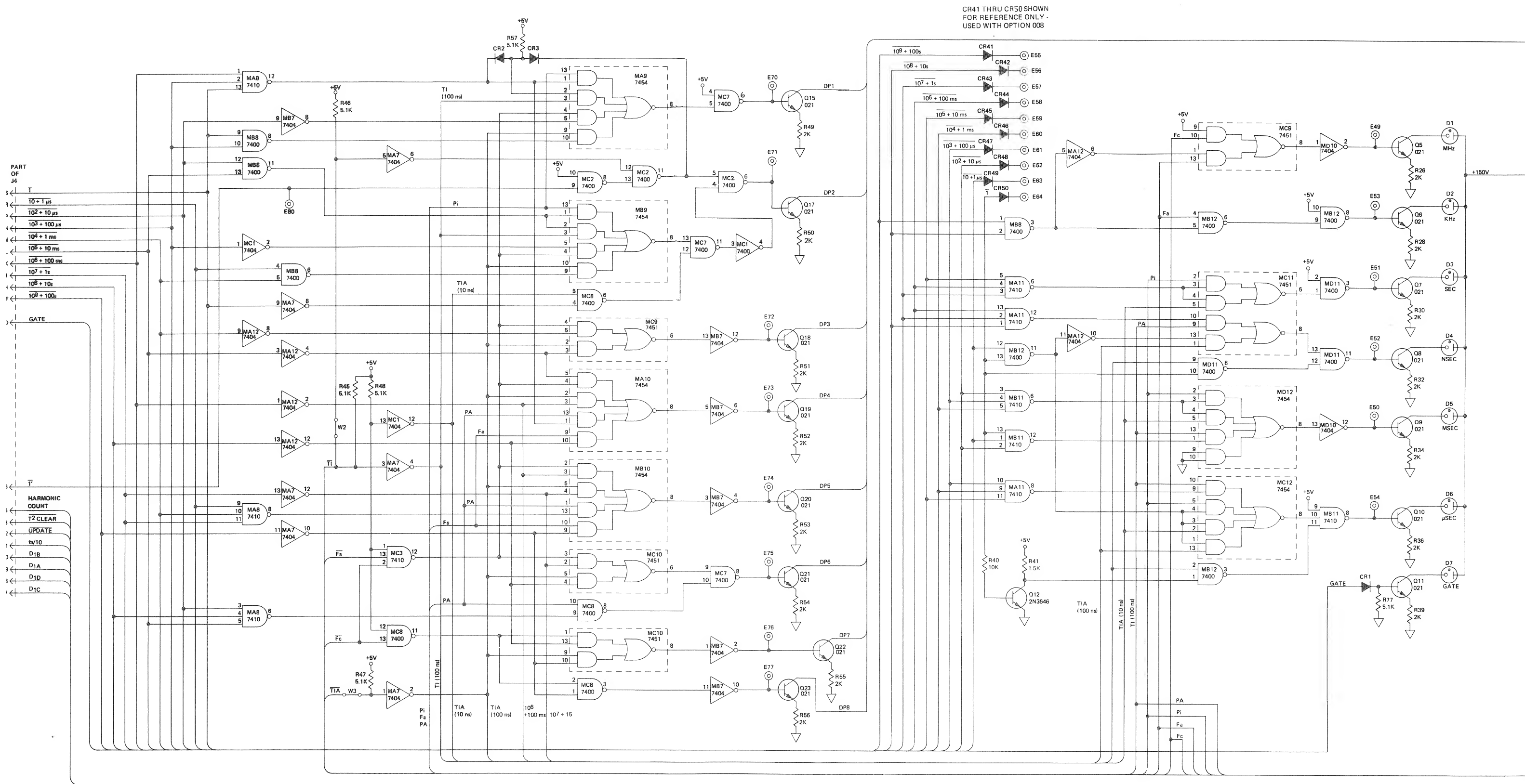
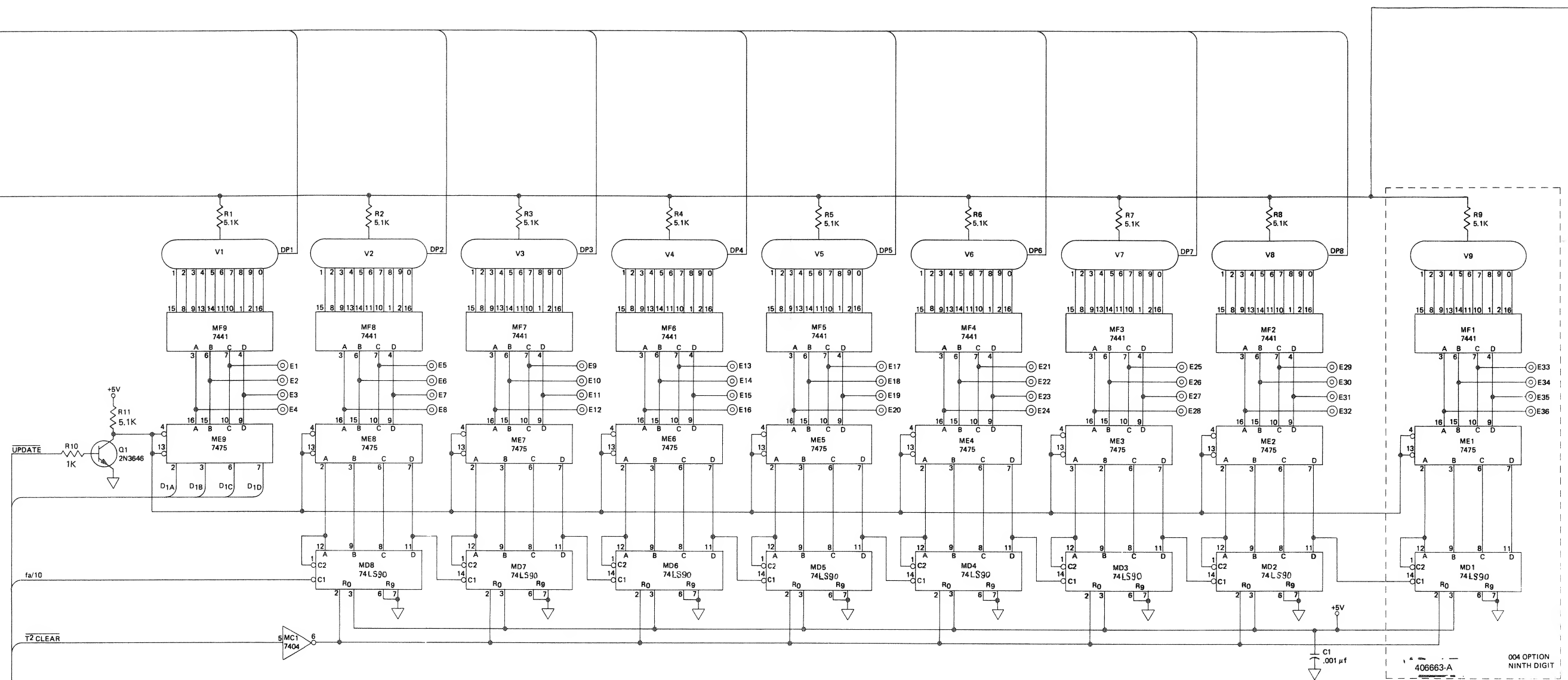


Figure 6.5 - Layout, Readout Board





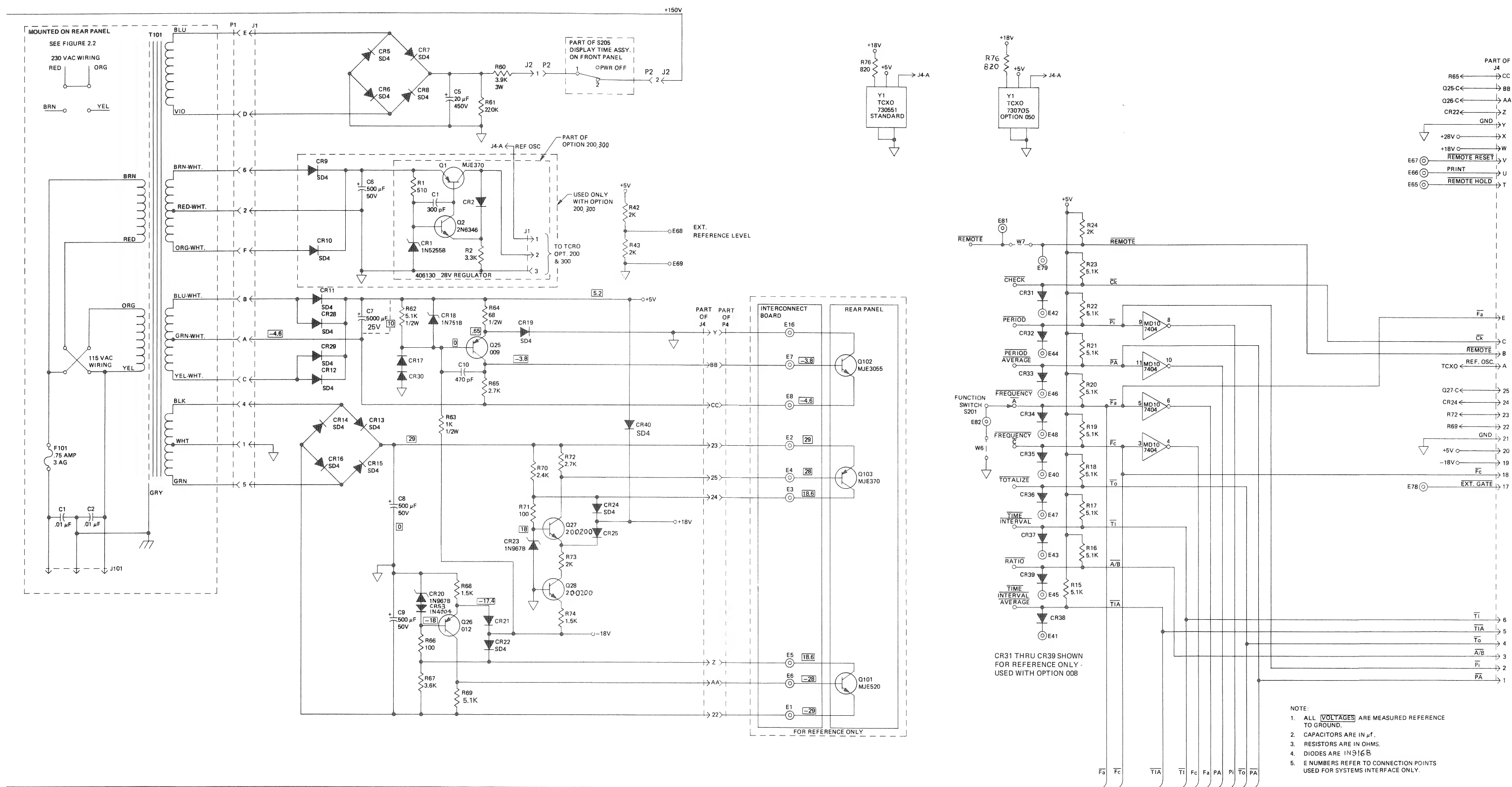
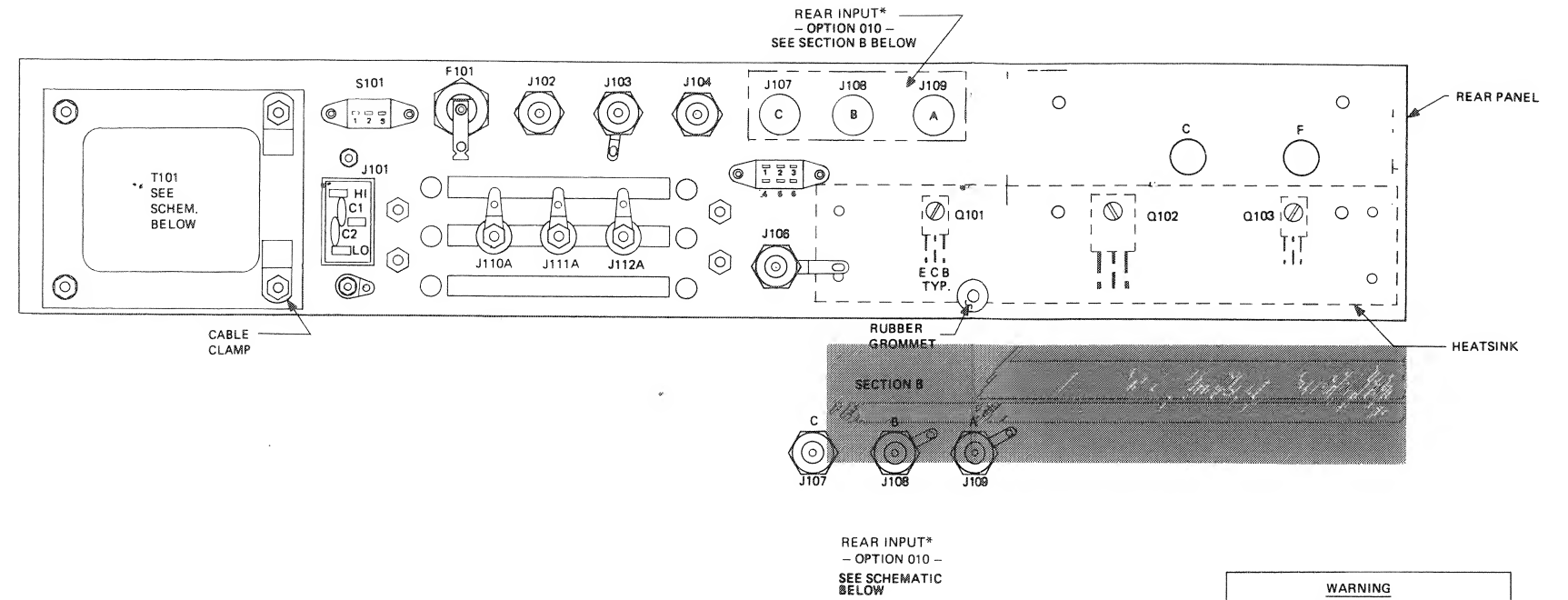
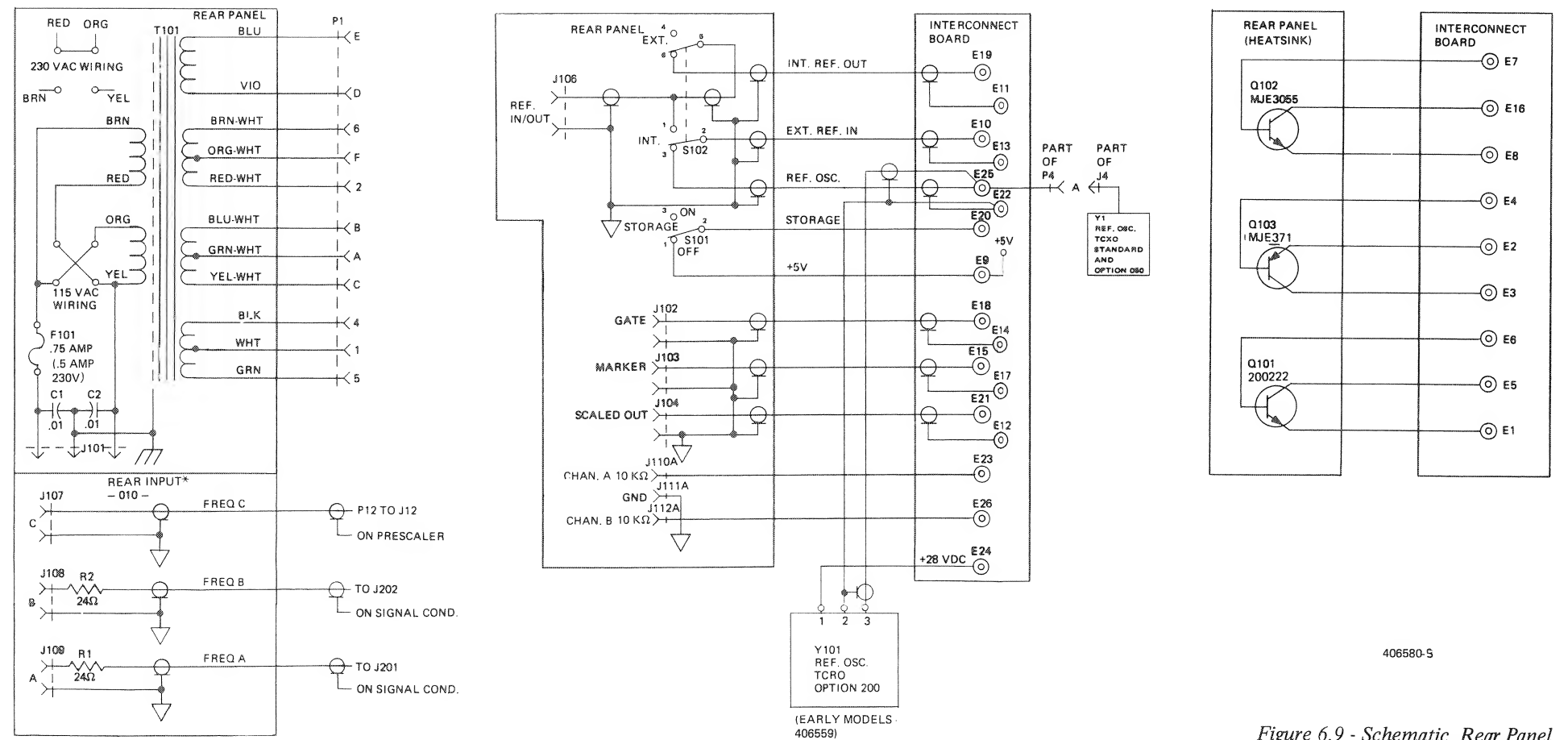


Figure 6.6 - Schematic, Readout Board continued

Figure 6.7 - Schematic, Interconnect Board



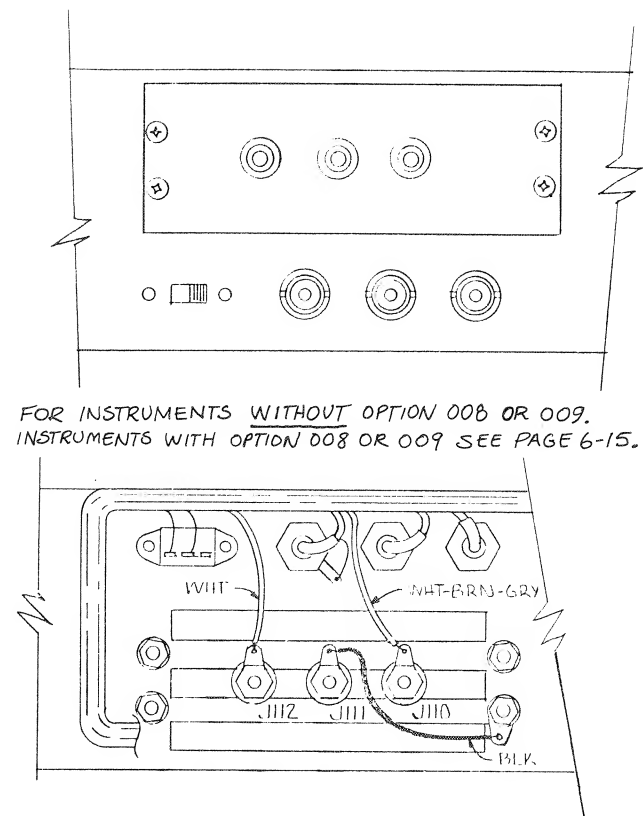
WARNING
THE AREAS INDICATED BY SHADING
CONTAIN COMPONENT PARTS WHICH
GENERATE HEAT. TO PREVENT
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INDICATED AREAS WHEN WORKING
WITH THE INSTRUMENT.



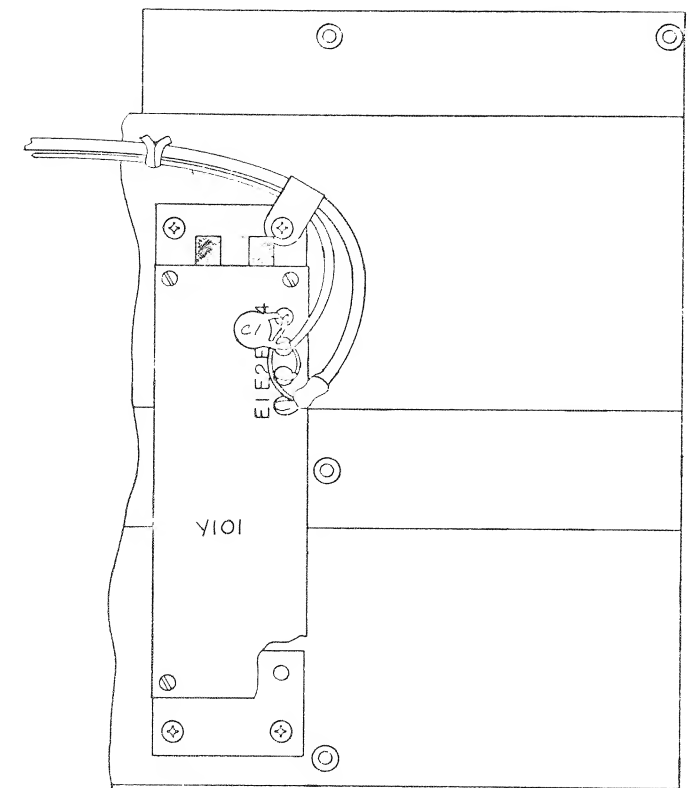
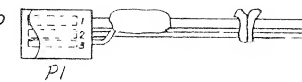
*INSTRUMENTS EQUIPPED WITH OPTION 200 OR 300
REFER TO PAGE 6-15 TO SHOW LAYOUT OF OPTION
010 REAR INPUT

406580-5

Figure 6.9 - Schematic, Rear Panel



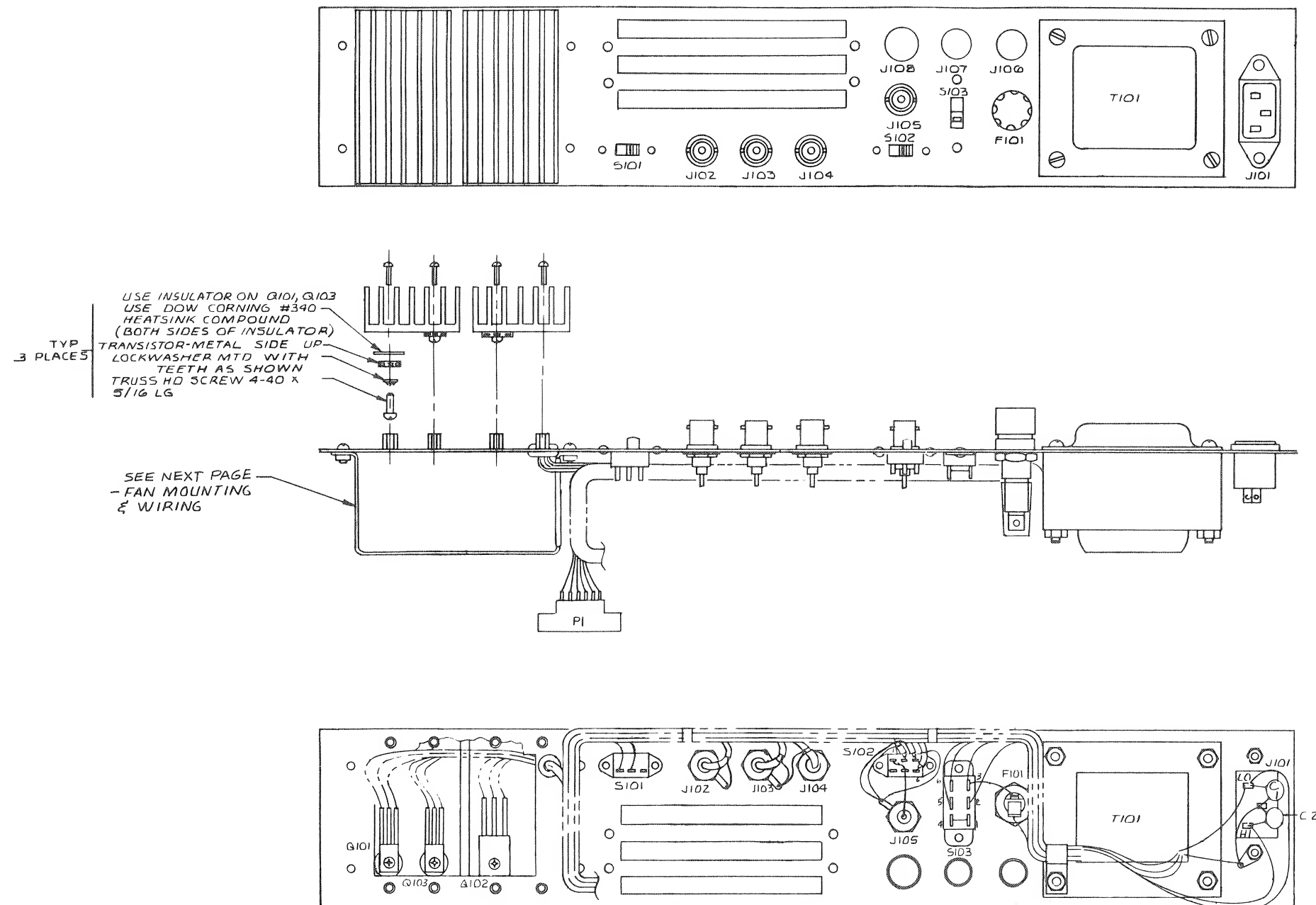
TO J1, 28V REGULATOR
406130) ON READOUT BOARD
SEE PAGE 6-8



IF 406654 OR 406655 SIGNAL CONDITIONER
MODULES ARE USED REMOVE 600245 JUMPER
ON 406732 REAR PANEL ASSY.

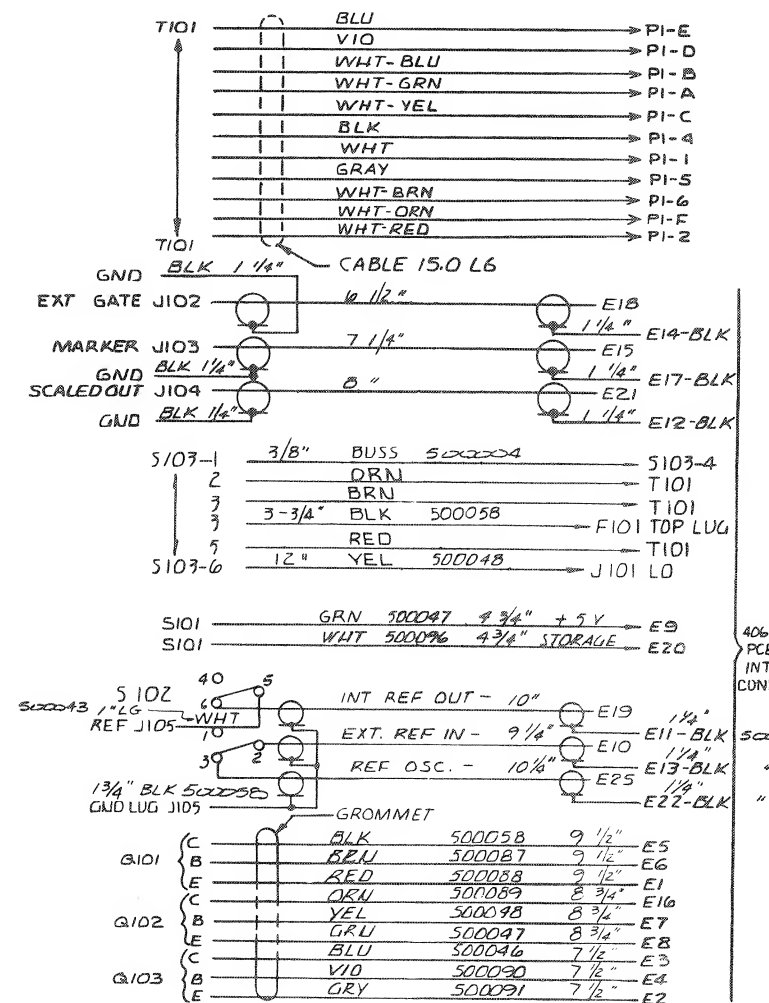
406748/749-F

Figure 6.10 - Assembly, Oscillator (Option 200 or 300)



WIRING

J101 LOW	YEL 500048	T101
J101 GND	GRN 500047	CHASSIS GND LUG
J101 HI	8 1/4" BLK 500058	F101 END LUG
T101	3 1/8" GRN 500047	CHASSIS GND LUG

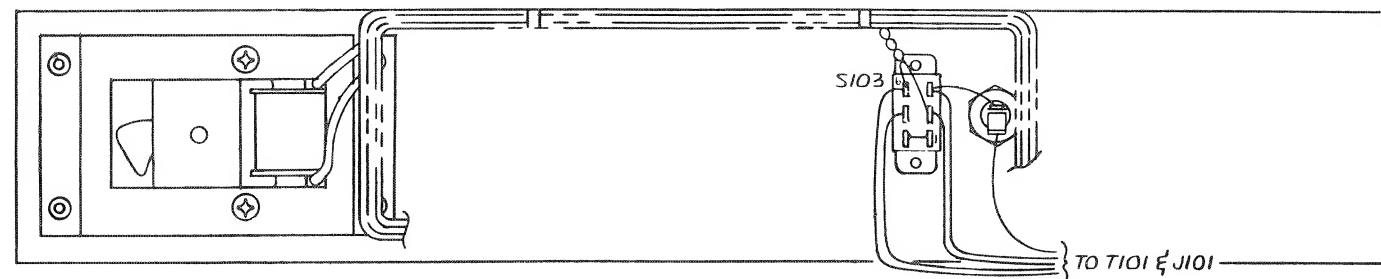
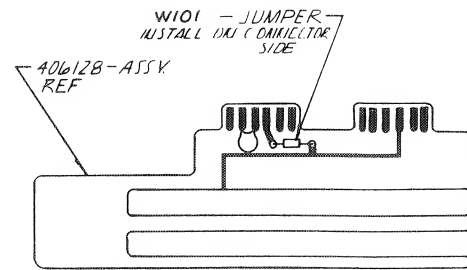


406732-E

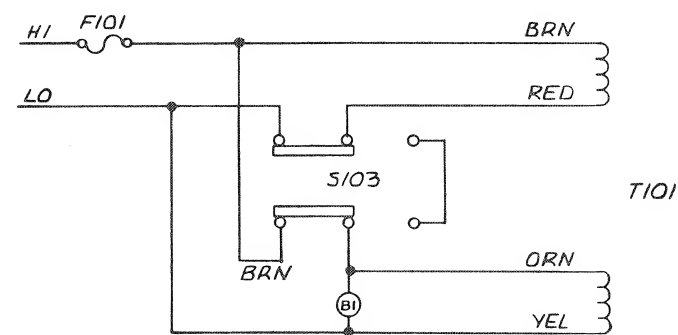
Part of P/N 406748/49 Option 200 & 300

FOR INSTRUMENTS WITH OPTION 008 OR 009.
INSTRUMENTS WITHOUT OPTION 008 OR 009 SEE PAGE 6-14.

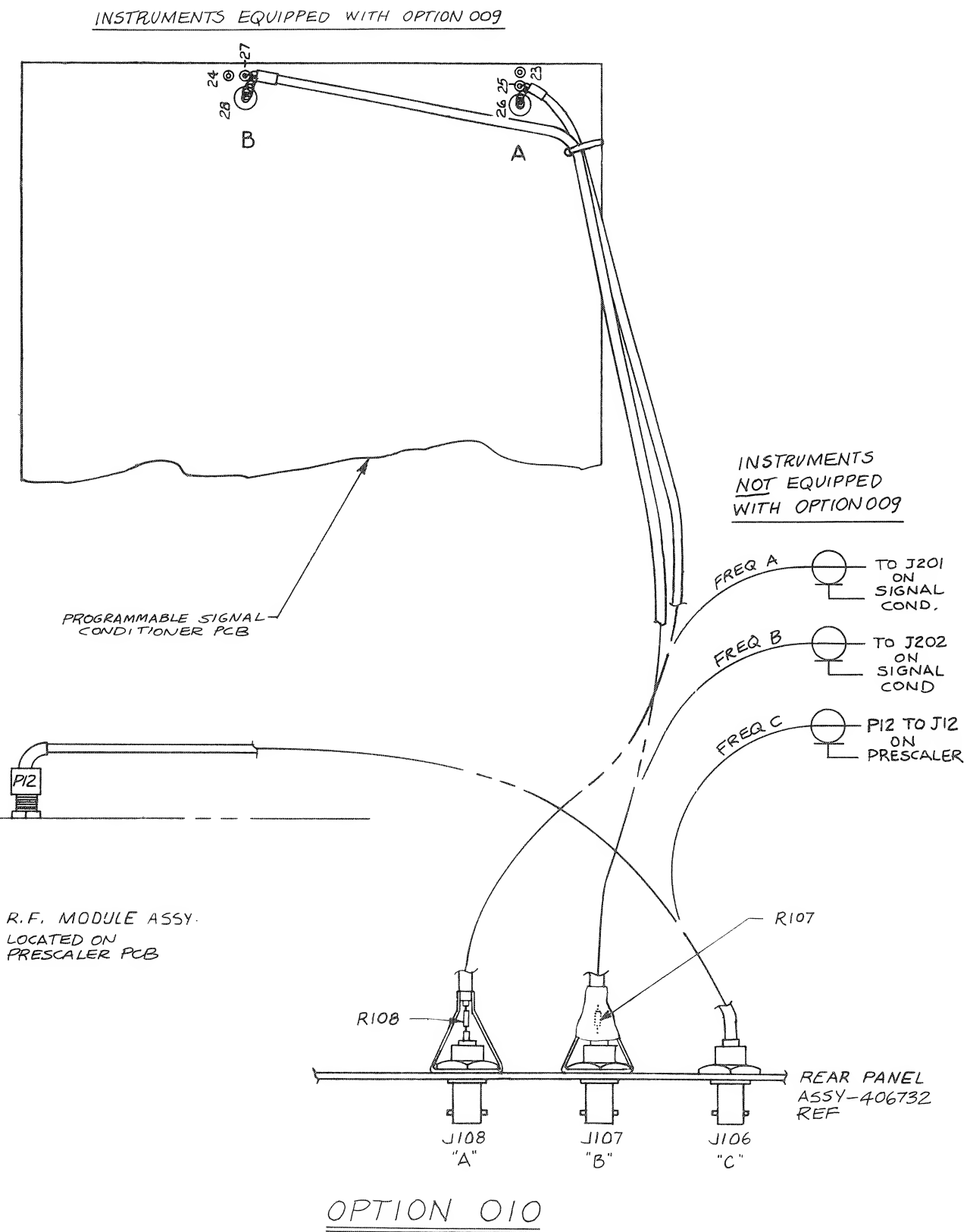
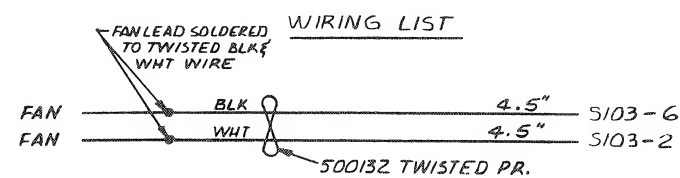
Figure 6.11 - Layout, Rear Panel (Part of Option 200 & 300)



FAN MOUNTING



WIRING DIAGRAM FOR FAN & P5



(Part of P/N 406748/49 Option 200 & 300)

Figure 6.11 - Layout, Rear Panel
(Part of Option 200 & 300) continued

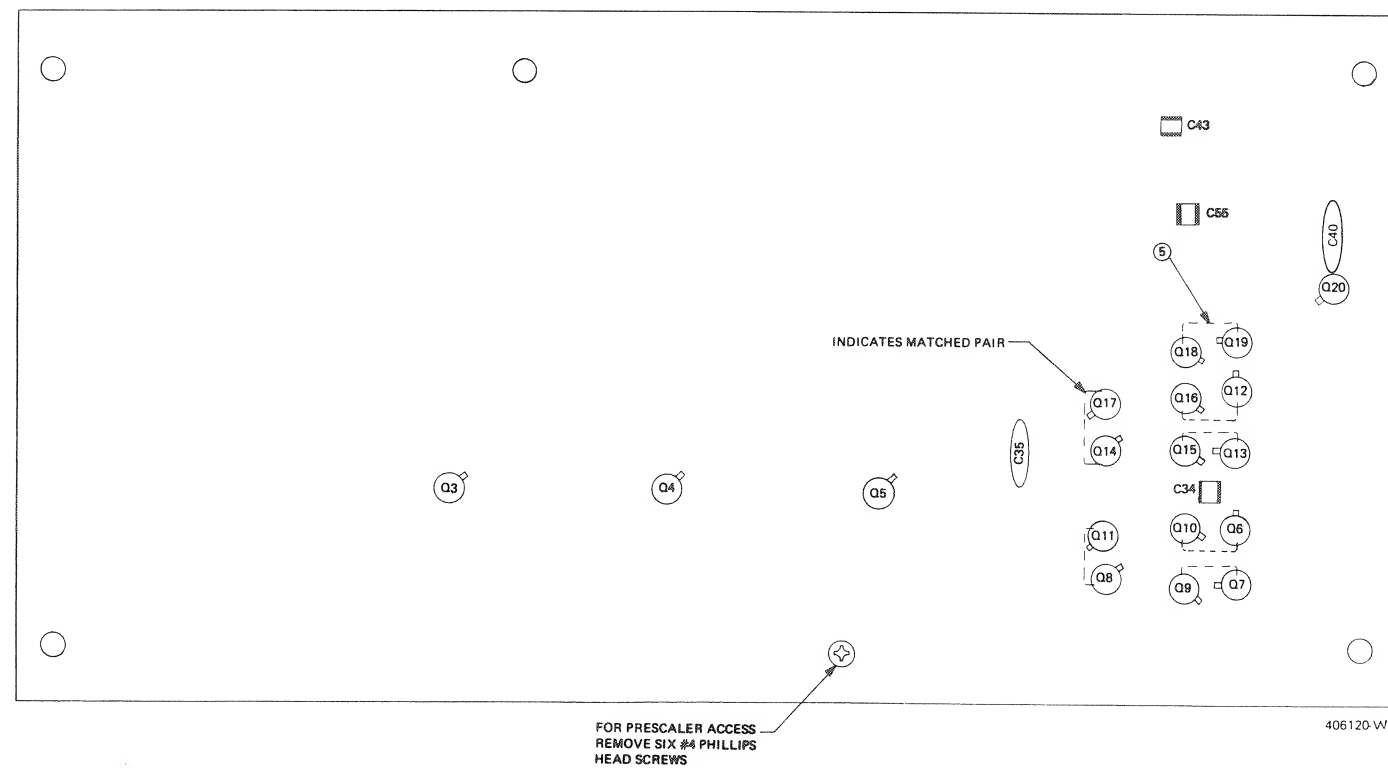
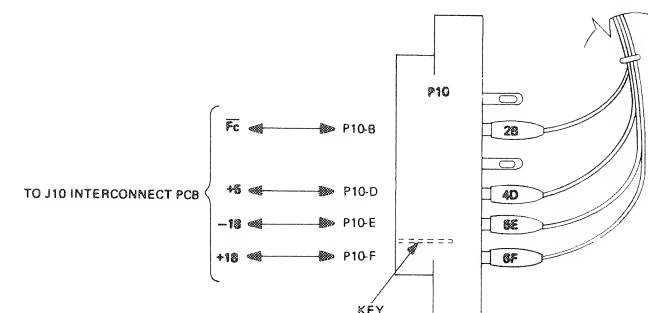
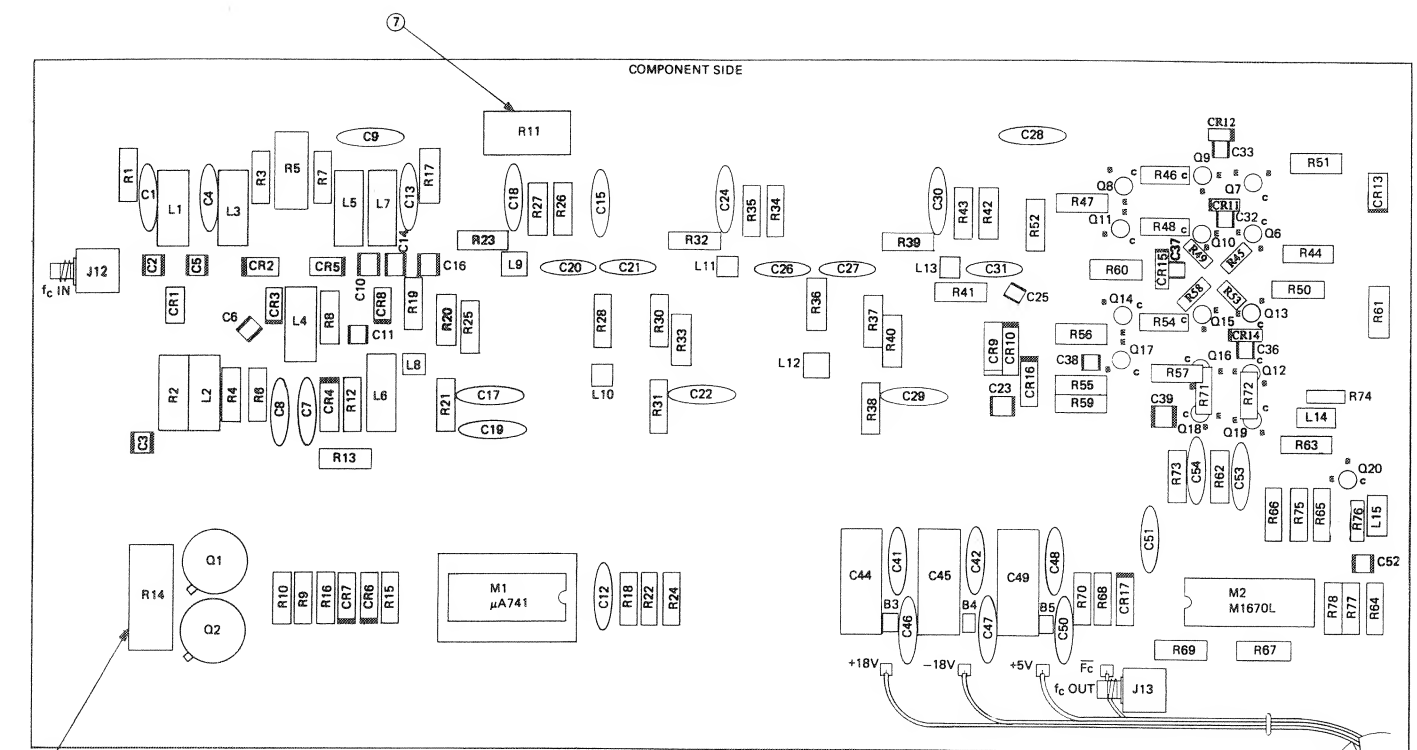
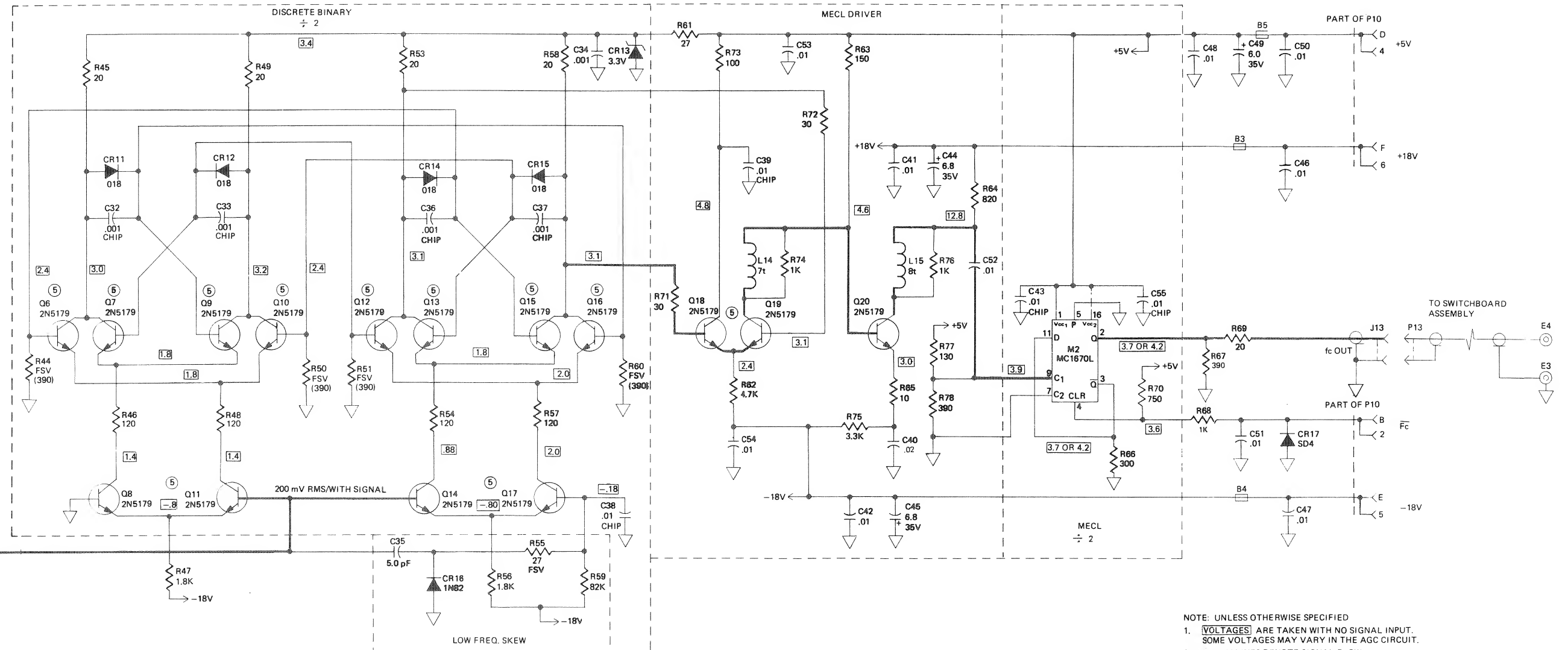
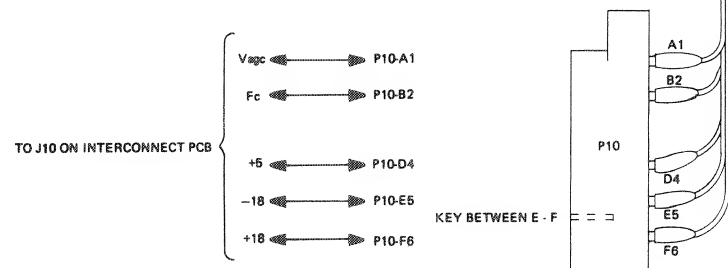


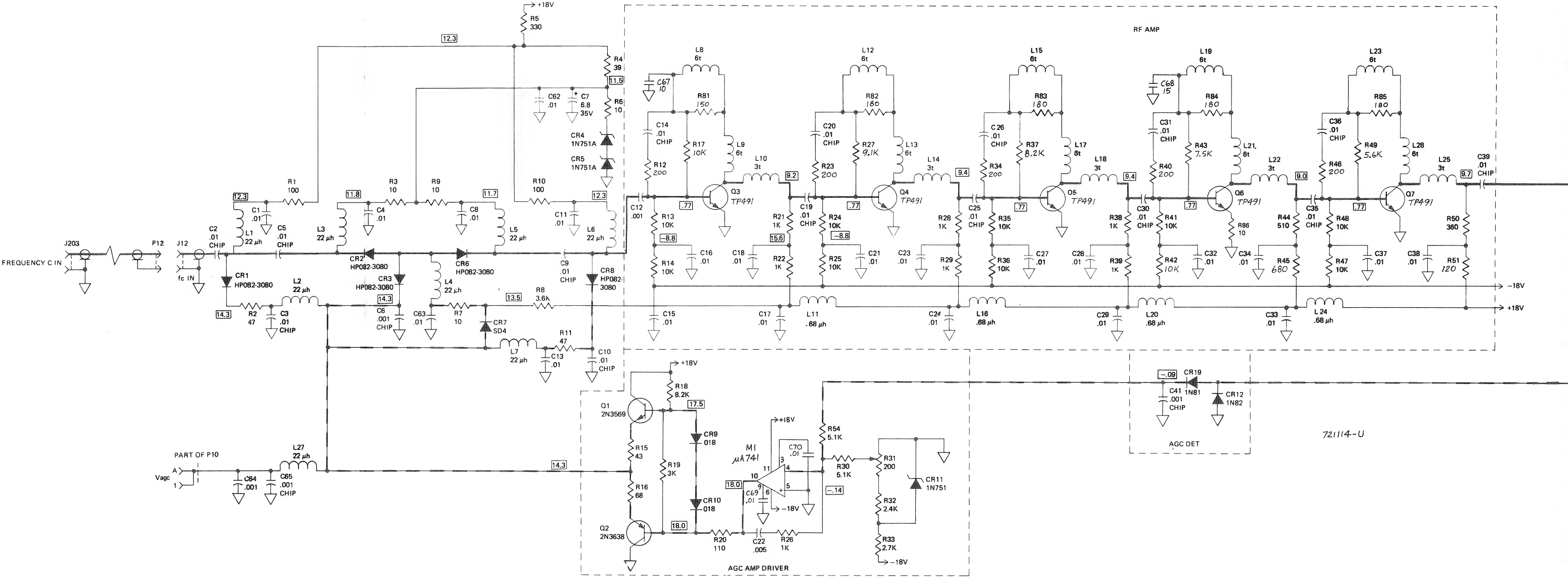
Figure 6.12 - Layout, Prescaler 550 MHz (50 mV)



721120-P

Figure 6.13 - Schematic, Prescaler 550 MHz (50 mV)





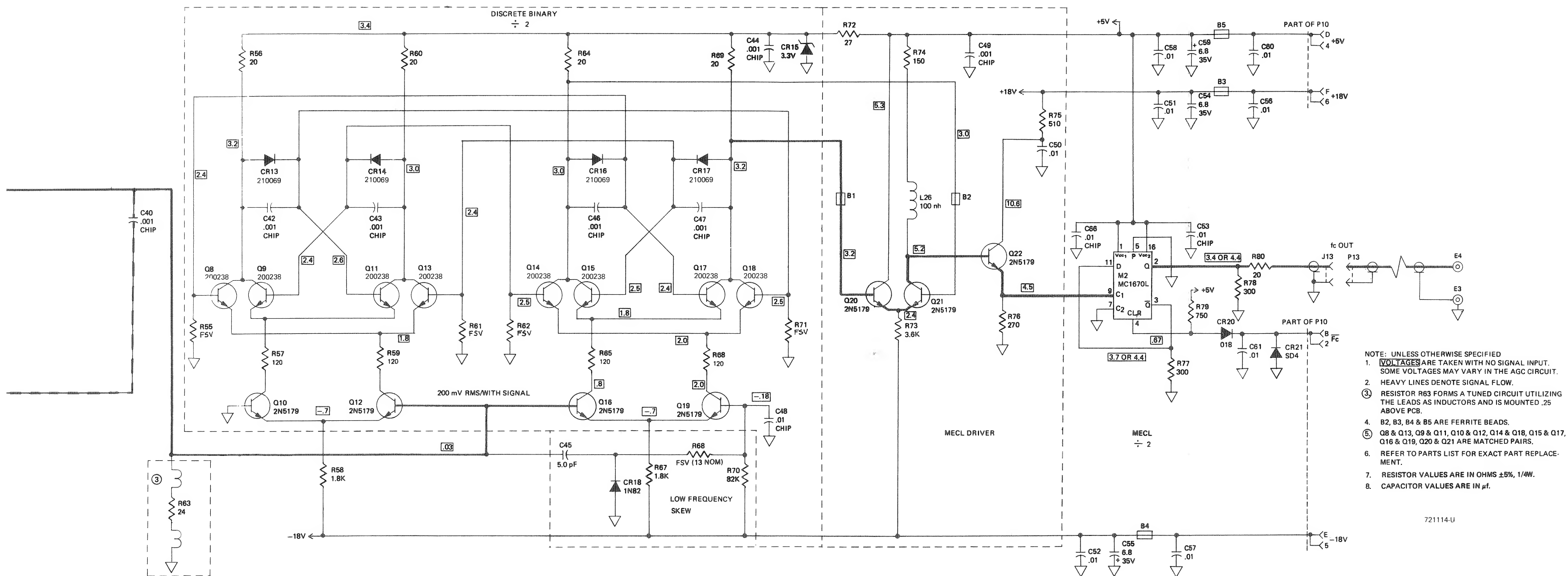


Figure 6.15 - Schematic, Prescaler 500 MHz (1 mV)